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Sir:

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INVENTOR: **DAVID GOODNOUGH ET AL.**

FOR: **SYSTEM AND METHOD FOR ON-LINE SELECTION OF AN AIR CONDITIONING PRODUCT**

Enclosed are:

- () _____ sheets of drawing(s).
- () An Assignment of the invention to _____
- () A certified copy of _____ Application No. _____, Filed _____.
- () Verified statement(s) to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27.
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The filing fee has been calculated as shown below:

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Basic Fee				\$ 380		\$ 690
Total Claims	16	- 20 = 0	x 9	\$	x 18	\$
Indep Claims	1	- 3 = 0	x 39	\$	x 78	\$
Multiple Dependent Claim () Presented			+135	\$	+270	\$
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SYSTEM AND METHOD FOR ON-LINE
SELECTION OF AN AIR CONDITIONING PRODUCT

Technical Field

The invention relates to a system and method for on-line selection of a product and, more particularly, to an interactive system and method for on-line selection and purchase of an air conditioning product.

Background of the Invention

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Air conditioning products are widely used for conditioning the environment in enclosed areas. For example, room air conditioning products are used for cooling, and in some cases for heating, various enclosed areas such as rooms in a home and the like. Selection of a proper room air conditioning product for a particular intended use should take into account a number of factors related to the intended use location or environment. Unfortunately, consumers frequently select an air conditioning product without considering such factors.

One important characteristic of different air conditioning products is cooling and/or heating capacity. This capacity is typically measured in British Thermal Units or BTUs. A BTU is the amount or quantity of heat required to raise the temperature of 1 lb. of water by 1°F. As it applies to an air conditioning product, this product can be described as having a capacity in terms of BTUs output per hour.

An air conditioning unit should be selected to have a BTU capacity appropriate for the environment in which it will be

used. An air conditioning unit having a BTU capacity lower than is required for cooling a particular space and environment would run continuously and would not adequately cool the room.

Conversely, an air conditioning product that has a BTU capacity higher than is required will cycle on and off frequently and will not properly dehumidify the environment of use.

A wide variety of different factors to consider when selecting a product having the appropriate capacity are known to the skilled technician in the air conditioning industry. However, such a technician may not routinely be available to a consumer selecting an air conditioning product. Thus, the need exists for an improved system and method by which consumers can select an appropriate air conditioning product for their intended use.

It is therefore the primary object of the present invention to provide such a system and method.

It is a further object of the present invention to provide a system and method for assisting a consumer in selecting an air conditioning product which is interactive and available on-line or by Internet.

Other objects and advantages of the present invention will appear hereinbelow.

SUMMARY OF THE INVENTION

In accordance with the present invention, the foregoing objects and advantages have been readily attained.

In accordance with the present invention, an interactive method for on-line selection of an air conditioning product is provided, comprising the steps of providing a database storing a plurality of air conditioning product identifiers and at least one corresponding product characteristic; interactively obtaining intended use information from a consumer for a desired air conditioning product and intended use location; equating

said intended use information with an intended use product characteristic; identifying a suitable product having said at least one product characteristic meeting said intended use product characteristic; and identifying said suitable product to said consumer. Preferably, the characteristic is BTU capacity.

In further accordance with the present invention, one or more types of further intended use location information may be interactively obtained from a consumer and used to determine a correction factor or factors and a corrected acceptable BTU capacity for a desired air conditioning product.

DETAILED DESCRIPTION

The invention relates to a system and method for interactively selecting an air conditioning product. More particularly, the invention relates to a system and method for selecting such an air conditioning product on-line or via the Internet or World Wide Web.

As is well known to a person of ordinary skill in the art, many on-line applications, Internet web pages and/or sites provide consumer accessible content such as product data and the like. Typically, the consumer is acting through a "client" computer system which accesses a "server" computer or computer system or network, whereby information is passed back and forth for a desired purpose. The specific technology for creating and operating such a system is well known to a person of ordinary skill in the art.

In accordance with the present invention, a server is established and programmed to interact with a consumer so as to assist in the proper selection and purchase of an air conditioning product which is appropriate for the consumer's intended use location. The thrust of the system and method is to guide a consumer through selection of an air conditioning

product having an acceptable BTU capacity for the intended use location.

Air conditioning products include a wide variety of products such as room air conditioners, humidifiers, dehumidifiers, purifiers and the like. Each of these types of air conditioning products should be selected taking into account a number of factors related to the intended use environment. The following description will be given as the invention relates to proper selection of a room air conditioner and the factors related thereto. It should of course be appreciated that the invention applies equally to other air conditioning products as well such as identified above, each of which has potentially the same or different intended use factors to consider.

As will be discussed more thoroughly below, the consumer selecting an air conditioning product is asked to input certain intended use information which is then utilized to determine an initial BTU capacity and one or more correction factors to be applied to the initial acceptable BTU capacity so as to determine a corrected acceptable BTU capacity for the consumer's desired location. A specific product which possesses a BTU rating meeting the corrected acceptable BTU capacity is then identified and offered for sale to the consumer. In accordance with the invention, the consumer may then proceed to purchase such product. An example of a suitable algorithm for carrying out the method of the invention is attached as Appendix A.

This method is preferably carried out via the Internet with the consumer receiving and providing information through a client computer to a server computer or network of computers programmed with the relevant air conditioning product information and selection algorithm. Alternatively, the software may be provided to consumers for installation on a consumer accessible personal computer, with the program interacting with the consumer to guide proper selection. This

mode of operation is specifically included within the term "on-line" as used herein.

In accordance with the method of the present invention, the proposed capacity of an air conditioning product for a specific desired location is determined in terms of capacity per hour, and will be referred to herein in specific units of British Thermal Units or BTU's per hour. It is of course to be understood that different systems of measurement are available for measuring capacity of an air conditioning product, and such capacity measuring systems are considered to be equivalent to and/or interchangeable with the BTUs discussed herein.

The method of the present invention is typically carried out by a computer or network of computers which functions as a consumer-accessible server. The server preferably includes a database storing a plurality of air conditioning product identifiers and at least one corresponding product characteristic. The server is also preferably programmed with a selection algorithm as discussed below which advantageously interacts with a consumer so as to obtain intended use information for a desired air conditioning product and intended use location and to equate this information with a suitable product which is then offered to the consumer. Alternatively, this information and algorithm may be stored on a CD-ROM or other distributable storage mechanisms as discussed above.

The information to be stored at the server preferably includes a first table or relationship equating a square footage or area of space to be cooled with a corresponding initial acceptable BTU per hour. A typical relationship between area and cooling BTU capacity is set forth below in Table 1.

TABLE 1

<u>Sq. Ft.</u>	<u>BTU</u>
100	5000
150	5000
151	6000
300	6000
301	8000
350	8000
351	8600
450	8600
451	10000
500	10000
501	12000
700	12000
701	14000
800	14000
801	15000
900	15000
901	18000
1300	18000
1301	21000
1450	21000
1451	24000
1700	24000

The server database is also preferably programmed to store one or more tables each containing a series of product identifiers and corresponding BTU ratings. The relationship between capacity and specific product identifier may suitably be broken into several portions for example related to products having different additional features such as heating capability, window or wall mounting capabilities and the like. For example, these relationships may be divided into a first portion relating to air conditioning products that are window mount capable and can cool only, a second portion of air conditioning products which are wall mount capable and can cool only, and a third portion relating to air conditioning products which can both cool and provide supplemental heat. Typical examples of such tables or portions of the relationship discussed are set forth below in Tables 2, 3 and 4.

TABLE 2

<u>BTU</u>	<u>Product Identifier</u>
3000 to 5200	UCA051B TCA051B TCB051B
5201 to 7000	LCA061P UCB061B TCA061D PCA061D
7001 to 9000	UCD081B TCA081D TCA081P 53SSB009-1
9001 to 11000	TCA101D GCA101B
11001 to 13000	TCA121D GCA121B GCA123B XCB121E XCB121R 462AJC012BA DCA131G
13001 to 14000	DCA141D
14001 to 16500	DCA153D 462AJC015BA
16501 to 19000	XCB183D XCB183E 462AJC015BA
19001 to 22000	DCA213D YCA213R YCB213E 462AJC021BA
22001 to 25000	JCA243D

TABLE 3

<u>BTU</u>	<u>Product Identifier</u>
3000 to 5200	UCA051B
5201 to 7000	UCB061B
7001 to 9000	UCD081B
9001 to 11000	GCA101B
11001 to 13000	GCA121B GCA123B XCB121E XCB121R 462JC012BA DCA 131G
13001 to 14000	DCA141D
14001 to 16500	DCA153D 462AJC015BA
16501 to 19000	XCB183D XCB183E 462AJC018BA
19001 to 22000	DCA213D YCA213R 462AJCO21BA YCB213E
22001 to 25000	JCA243D

TABLE 4

<u>BTU</u>	<u>Product Identifier</u>
3000 to 5200	N/A
5201 to 7000	N/A
7001 to 9000	N/A
9001 to 11000	XHC101D XQB101D
11001 to 13000	XHA123D XQA123D
13001 to 14000	XHA123D XQA123D
14001 to 16500	XHB153D XQB153D
16501 to 19000	XHB183D XQB183D
19001 to 22000	YHB243D
22001 to 25000	YHB243D

The server database is further preferably programmed to store the selection algorithm and/or several correction factors for use by the algorithm which are used along with information obtained from the consumer and the initial capacity from Table 1 to obtain a corrected acceptable product capacity. This corrected capacity is then used with tables such as Tables 2-4 to identify a suitable product. The selection algorithm and various correction factors will be discussed in detail below. In addition, Appendix A annexed hereto contains a non-limiting example of a specific embodiment of a selection algorithm according to the invention.

Once a consumer has accessed the server for carrying out the method of the present invention, the consumer is asked to enter the dimensions of the intended use location or room. This

area is calculated at the server from room dimensions entered by the consumer. Alternatively, the area may be directly entered by the consumer. Areas are referred to herein in units of square feet. Of course, other systems of measurement can be used.

In accordance with the invention, the area is then checked against an area to capacity table such as Table 1 to insure that the information stored in the database can help to select the proper air conditioning product. If the area entered by the consumer exceeds the maximum area in the stored area to initial capacity relationship or table, the consumer can preferably be instructed to contact a local dealer for further assistance with unit selection.

Assuming that the consumer input area is located in the area to initial capacity table, the initial capacity value from the table is assigned by the server to an intermediate identifier of the algorithm such as "BTU 1".

The consumer is then asked to input the area of glass at the intended use location or room which faces the exterior or outdoors. This information to be input should include the area of windows, skylights, glass doors and the like, each of which can add to the required capacity for an air conditioning product suitable for that particular intended use location. The server is preferably programmed to store a correction factor or relationship to correct for the consumer identified exterior facing glass.

For example, the exterior glass area may be used to determine a corrected capacity as follows:

$$R_c = R_i + (C \cdot 60), \text{ wherein}$$

R_i is an initial acceptable product capacity in BTU/hour,

R_c is a corrected acceptable capacity in BTU/hour, and

C is exterior glass area in square feet.

It should be noted that the initial capacity R_i referred to above may be capacity determined from the area to initial capacity table (BTU 1), or may be an intermediate corrected capacity already corrected for other factors such as those discussed below. Further, the corrected capacity R_c may suitably be utilized to select an appropriate product, or may be used as a starting point for other correction determinations. For example, the value of R_c from this step may be assigned to a further intermediate algorithm identifier such as "BTU 2" which is then utilized in subsequent steps to obtain a further corrected rating or capacity. Thus, the term 'initial' as used herein in connection with product capacities and BTU capacities specifically includes, without limitation, intermediate capacities obtained from other correction determinations.

According to the invention, the consumer is next asked to indicate whether the intended use location or room is normally in the sun or shade. Depending upon the answer entered, the server is preferably programmed to carry out a further correction. For example, a corrected capacity may be determined as follows:

If "sun" then $R_c = R_i \cdot 1.1$, and

If "shade" then $R_c = R_i \cdot 0.95$, wherein

R_i is an initial or intermediate acceptable capacity in BTU/hour, and

R_c is a corrected product capacity in BTU/hour.

The value R_c obtained from this calculation may suitably be used to select a product or may be assigned to a value "BTU 3" for further use in the selection algorithm. Further, the value R_i may be the value "BTU 2" which is obtained following the consumer input of exterior glass area.

The consumer is then preferably asked to enter whether the space above the room is a roof only, an attic or an occupied

room. With this information, a further corrected acceptable product capacity is determined, for example as follows:

If roof only, then $R_c = R_i$

If attic, then $R_c = R_i \cdot 0.85$, and

If occupied room, $R_c = R_i \cdot 0.8$, wherein

R_i is an initial or intermediate acceptable capacity in BTU/hour, and

R_c is a corrected product capacity in BTU/hour.

The corrected BTU capacity may then be used to select a product or may be assigned to a new algorithm identifier "BTU 4" for use in subsequent steps.

The consumer is then preferably asked to input whether the intended use location is above a cooled space such as a basement or another air-conditioned room, and a further corrected product rating is determined, for example as follows:

If above cooled space, then $R_c = R_i \cdot 0.8$, and

If not above cooled space, then $R_c = R_i \cdot 0.9$, wherein

R_i is an initial or intermediate acceptable product capacity in BTU/hour, and

R_c is a corrected acceptable product capacity in BTU/hour.

The corrected product capacity determined from this step may be used to select a product or can be assigned to an identifier "BTU 5" for further use by the selection algorithm.

The consumer is then asked to enter whether the desired product will be operated only at night which can affect the appropriate product capacity significantly. The method of the present invention then determines a further corrected acceptable capacity using this information, for example as follows:

If night only, then $R_c = R_i \cdot 0.65$, and

Otherwise, $R_c = R_i$, wherein

R_i is an initial or intermediate acceptable product capacity in BTU/hour, and

R_c is a corrected product capacity in BTU/hour.

The corrected product capacity obtained from this step may be used to select a suitable product or can be assigned to a further algorithm identifier "BTU 6".

The consumer is then asked to input a geographic location indicator which serves to identify the area where the desired product is to be used. Preferably, this indicator will be entered in the form of a postal zip code, although other methods can be used such as telephone area code and the like. In further accordance with the present invention, the server may advantageously be programmed to store a correlation of climate correction factors corresponding to zip codes or other geographic indicators and designed to suitably correct a product capacity for the specific climate of a geographic location of intended use. A portion of a typical correlation between zip code and climate factor is set forth below in Table 5.

TABLE 5

<u>ZIP CODE</u>	<u>CLIMATE</u>
12000	0.7
12999	0.7
13000	0.8
14999	0.8
15000	0.8
15999	0.8
16000	0.9
17999	0.9
18000	0.8
18999	0.8
19000	0.9
19999	0.9
20000	1
20099	1
20100	0.9
20999	0.9

In accordance with the method of the present invention, a further corrected acceptable product capacity is determined using the climate correction factor, for example as follows:

$$R_C = R_I \cdot CF, \text{ wherein}$$

R_I is an initial or intermediate acceptable product capacity in BTU/hour,

R_C is a corrected acceptable product capacity in BTU/hour, and

CF is a climate factor obtained as in Table 5.

The value of the corrected product capacity obtained in this step may be used to select a product or can be assigned to a further algorithm identifier "BTU 7".

The consumer is next asked to identify the number of people who normally occupy the room or intended use location. From this information, a further corrected acceptable product capacity is determined for example as follows:

$$R_C = [(I - 2) \cdot 600] + R_I, \text{ wherein}$$

R_I is an initial or intermediate acceptable product capacity in BTU/hour,

R_C is a corrected acceptable product capacity in BTU/hour, and

I is the number of people entered by the consumer.

The corrected product capacity determined from this step may be used to select a product or can be assigned to a further algorithm identifier "BTU 8".

The consumer is preferably next asked to indicate whether the intended use location includes a kitchen, and a further corrected acceptable product capacity is determined based on this input, for example as follows:

If kitchen, then $R_C = R_I + 4,800$, and

Otherwise, $R_C = R_I + 300$, wherein

R_I is an initial or intermediate acceptable product capacity in BTU/hour, and

R_c is a corrected acceptable product capacity in BTU/hour.

The value of the corrected acceptable capacity determined in this step may be used to select a product or can be assigned to a further algorithm identifier "BTU 9".

The consumer may then preferably be asked to indicate whether the desired unit will be installed in a window or through a wall, and further whether the desired product must be capable of cooling and supplemental heating, or of cooling only. The information entered by the consumer at this step can be used to determine which table or portion of the relationship or table of acceptable BTU capacity to product identifier (Table 2, 3 and 4) to be used to identify a suitable product for the consumer.

For example, assuming use of all of the correction factors identified above, and use of Tables 2-4, if the consumer enters that the desired product is to be window mounted and need not have heating capacity, the suitable product would be selected from Table 2 using the value "BTU 9". If the consumer enters that the product is to be mounted through a wall and need not have heating capacity, a suitable product could be selected from Table 3 using the value "BTU 9". If the consumer indicates that the desired product must be capable of heating, a suitable product can be selected from Table 4 using the value "BTU 9", and if a window-mount is indicated as desired, the consumer could be advised to also purchase a window installation kit.

As shown in Tables 2-4, the product characteristic is preferably BTU rating for each product available. Once a corrected acceptable BTU capacity has been determined, a product having a BTU rating meeting the corrected acceptable BTU capacity is selected at the server from the appropriate table and identified to the consumer at the client machine. For example, if a consumer has indicated a wall mounted "cooling only" unit and information leading to a corrected acceptable BTU capacity of 4,100 BTU/hour, Table 3 would be used to select

product identifier UCA051B corresponding to a wall mountable unit having a rating of 3,000-5,300 BTU/hour. Thus, the product characteristic is preferably a range representing capability of a particular product and the intended use product characteristic is a value, preferably corrected for various intended use factors, which can be compared or matched to the stored product characteristic ranges to identify a suitable product.

As set forth above, a series of correction steps or factors are identified for determining a corrected acceptable product capacity from an initial acceptable product capacity. A preferred embodiment of the present invention would include a series of correction factor determinations wherein the value BTU 1 identified above is assigned as the initial capacity for the next step, and so on, so as to obtain a final corrected acceptable product capacity which takes each factor into account. Through this method, a consumer is interactively guided to the selection of an ideal product for a specific intended use location, thereby avoiding problems inherent with use of air conditioning products having ratings too low or high for a desired intended use location.

The method of the present invention interacts with the consumer, asking that information be entered at the client machine by the consumer, and responding to entry with further information requests and/or identification of a suitable product from the server machine or network.

Thus, consumer guidance is provided in a readily available manner thereby greatly increasing accessibility of critical information for use in selecting an appropriate air conditioning product.

It should be readily appreciated that the foregoing specific steps provide a detailed description of a preferred method for carrying out the present invention. It should also be appreciated that a number of other correction factors, or a

combination of some but not all of those factors discussed above could be assembled, all well within the scope of the present invention.

It should also be appreciated that this disclosure provides a method whereby a consumer can access a system by Internet for interactively guiding the selection of an appropriate product, whereby selection of an appropriate product based upon industry expertise is significantly more convenient for the consumer.

It is to be understood that the invention is not limited to the illustrations described and shown herein, which are deemed to be merely illustrative of the best modes of carrying out the invention, and which are susceptible of modification of form, size, arrangement of parts and details of operation. The invention rather is intended to encompass all such modifications which are within its spirit and scope as defined by the claims.

WHAT IS CLAIMED IS:

1. An interactive method for on-line selection of an air conditioning product, comprising the steps of:

providing a database storing a plurality of air conditioning product identifiers and at least one corresponding product characteristic;

interactively obtaining intended use information from a consumer for a desired air conditioning product and intended use location;

equating said intended use information with an intended use product characteristic;

identifying a suitable product having said at least one product characteristic meeting said intended use product characteristic; and

identifying said suitable product to said consumer.

2. The method of claim 1, wherein said database is stored at a server location and wherein said intended use information is obtained from said consumer at a client location communicated with said server location by Internet.

3. The method of claim 1, wherein said identifying step further includes offering said product to said consumer for purchase.

4. The method of claim 1, wherein said corresponding product characteristic includes a BTU rating for each product of said plurality of product identifiers.

5. The method of claim 1, wherein said corresponding product characteristic includes a BTU rating for each product, and wherein said step of interactively obtaining comprises:

obtaining intended use location area from said consumer;
transforming said intended use location area into an
initial acceptable BTU capacity for said intended use location
area;

obtaining further intended use location information from
said consumer;

determining a correction factor from said further intended
use location information; and

applying said correction factor to said initial acceptable
BTU capacity so as to obtain a corrected acceptable BTU
capacity, and wherein said equating step comprises identifying
said suitable product having said BTU rating meeting said
corrected acceptable BTU capacity.

6. The method of claim 5, wherein said further intended
use location information includes an indication from said
consumer as to area of exterior facing glass at said intended
use location, and wherein said corrected acceptable BTU capacity
is determined as follows:

$$R_c = R_i + (C \cdot 60), \text{ wherein}$$

R_i is said initial acceptable BTU capacity in BTU/hour,

R_c is said corrected acceptable BTU capacity in
BTU/hour and

C is said area of exterior facing glass in square
feet.

7. The method of claim 5, wherein said further intended
use location information includes an indication from said
consumer as to whether said intended use location is in sun or
shade, and wherein said corrected acceptable BTU capacity is
determined as follows:

if sun, $R_c = R_i \cdot 1.1$; and

if shade, $R_c = R_i \cdot 0.95$; wherein

R_I is said initial acceptable BTU capacity in BTU/hour,
and

R_C is said corrected acceptable BTU capacity in
BTU/hour.

8. The method of claim 5, wherein said further intended use location information includes an indication from said consumer that a space above said intended use location is one of a roof, an attic, and an occupied room, and wherein said corrected acceptable BTU capacity is determined as follows:

if roof, $R_C = R_I$,

if attic, $R_C = R_I \cdot 0.85$, and

if occupied room, $R_C = R_I \cdot 0.8$, wherein

R_I is said initial acceptable BTU capacity in BTU/hour,
and

R_C is said corrected acceptable BTU capacity in
BTU/hour.

9. The method of claim 6, wherein said further intended use location information includes an indication from said consumer as to whether said intended use location is above a cooled space, and wherein said corrected acceptable BTU capacity is determined as follows:

if above a cooled space, $R_C = R_I \cdot 0.8$, and

if not above a cooled space, $R_C = R_I \cdot 0.9$, wherein

R_I is said initial acceptable BTU capacity in BTU/hour,

and

R_C is said corrected acceptable BTU capacity in
BTU/hour.

10. The method of claim 5, wherein said further intended use location information includes an indication from said consumer as to whether said desired air conditioning product

will be operated only at night, and wherein said corrected acceptable BTU capacity is determined as follows:

if operated only at night, $R_c = R_i \cdot 0.65$, and

otherwise, $R_c = R_i$, wherein

R_i is said initial acceptable BTU capacity in BTU/hour, and

R_c is said corrected acceptable BTU capacity in BTU/hour.

11. The method of claim 5, wherein said further intended use location information includes an indication from said consumer as to geographic location and wherein said step of determining said BTU correction factor includes determining a correction factor for said geographic location.

12. The method of claim 11, wherein said database stores a series of geographic location indicators and a series of correction factors corresponding to said geographic location indicators, and wherein said further intended use location information from said consumer includes a geographic location indicator.

13. The method of claim 12, further comprising the steps of determining an intended use location climate factor from said geographic location indicator, and determining a corrected acceptable product capacity as follows:

$R_c = R_i \cdot CF$, wherein

R_i is said initial acceptable BTU capacity in BTU/hour,

R_c is said corrected acceptable BTU capacity in BTU/hour, and

CF is said intended use location climate factor.

14. The method of claim 5, wherein said further intended use location information includes a number of occupants of said intended use location, and wherein said corrected acceptable BTU capacity is determined as follows:

$$R_c = [(I-2) \times 60] + R_i, \text{ wherein}$$

R_i is said initial acceptable BTU capacity in BTU/hour,

R_c is said corrected acceptable BTU capacity in BTU/hour, and

I is said number of occupants.

15. The method of claim 5, wherein said further intended use location information includes an indication from said consumer as to whether said intended use location includes a kitchen, and wherein said corrected acceptable BTU capacity is determined as follows:

if kitchen, $R_c = R_i + 4,800$; and

if no kitchen, $R_c = R_i + 300$; wherein

R_i is said initial acceptable BTU capacity in BTU/hour, and

R_c is said corrected acceptable BTU capacity in BTU/hour.

16. The method of claim 5, wherein said database stores a series of product identifiers and corresponding ranges of product BTU ratings, and wherein said series is divided into a first portion applicable to air conditioning products which only cool and which mount through a window, a second portion applicable to air conditioning products which only cool and which mount through a wall, and a third portion applicable to air conditioning products which cool and heat, wherein said further intended use location information includes an indication from said consumer as to whether said desired air conditioning product is to be mounted in a wall or a window, and whether said

desired air conditioning product must be able to cool and heat, and wherein said identifying step includes identifying said suitable product using said corrected acceptable BTU capacity and one of said first portion if said desired air conditioning product is to be mounted in a window and only cool, said second portion if said desired air conditioning product is to be mounted in a wall and only cool, and said third portion if said desired air conditioning product must cool and heat.

ABSTRACT OF THE DISCLOSURE

An interactive method for on-line selection of an air conditioning product includes the steps of providing a database storing a plurality of air conditioning product identifiers and at least one corresponding product characteristic; interactively obtaining intended use information from a consumer for a desired air conditioning product; equating the intended use information with an intended use product characteristic; identifying a suitable product having the at least one product characteristic meeting the intended use product characteristic; and identifying the suitable product to the consumer.

Practitioner's Docket No. 99-642**PATENT****COMBINED DECLARATION AND POWER OF ATTORNEY**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- ☒ original.
☐ design.
☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

- ☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer of the inventors named in the prior application.

- ☐ divisional.
☐ continuation.

NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or a continuation or divisional application names an inventor not named in the prior application, a continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirements — nonprovisional application).

- ☐ continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

SYSTEM AND METHOD FOR ON-LINE SELECTION OF AN AIR
CONDITIONING PRODUCT

(Declaration and Power of Attorney [1-1]—page 1 of 7)

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b), or (c))

(a) ☒ is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed;
or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☐ was filed on _____, as ☐ Serial No. 0 / _____
or ☐ _____
and was amended on _____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.

NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456);

"(B) serial number and filing date;

"(C) attorney docket number which was on the specification as filed;

"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

M.P.E.P. § 601.01(a), 7th Ed.

(c) ☐ was described and claimed in PCT International Application No. _____, filed on _____ and as amended under PCT Article 19 on _____ (if any).

(Declaration and Power of Attorney [1-1]—page 2 of 7)

SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))*(complete the following where a supplemental declaration is being submitted)*

- ☐ I hereby declare that the subject matter of the
- ☐ attached amendment
- ☐ amendment filed on _____

was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
- ☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.

PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))

NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(f). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☒ no such applications have been filed.
- (e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

(Declaration and Power of Attorney [1-1]—page 3 of 7)

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))**

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER

FILING DATE

_____ / _____	_____
_____ / _____	_____
_____ / _____	_____

**CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S)
UNDER 35 U.S.C. § 120**

- ☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]—page 4 of 7)

**ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete **ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION** for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Robert H. Bachman (19,374); Gregory P. LaPointe (28,395); Barry L. Kelmachter (29,999) and George A. Coury (34,309)

(check the following item, if applicable)

- ☐ I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.
- ☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named practitioner(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO**DIRECT TELEPHONE CALLS TO:**
(Name and telephone number)☒ **Address**

BACHMAN & LAPOINTE, P.C.
900 Chapel Street
Suite 1201
New Haven, CT 06510-2802

George A. Coury
(203) 777-6628, Ext. 113

☐ **Customer Number** _____

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).

NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, *inter alia*, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997.

Full name of sole or first inventor

David

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

Goodnough

FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of second joint inventor, if any

Mary

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

Burgess

FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of third joint inventor, if any

Charles

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

Bullock

FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

(Declaration and Power of Attorney [1-1]—page 6 of 7)

(check proper box(es) for any of the following added page(s)
that form a part of this declaration)

☒ **Signature** for fourth and subsequent joint inventors. *Number of pages added* _____

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____

* * *

☐ **Added page for signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ **Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.**

☐ **Number of pages added** _____

* * *

☐ **Authorization of practitioner(s) to accept and follow instructions from representative.**

* * *

(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)

☐ This declaration ends with this page.

**ADDED PAGE TO COMBINED DECLARATION AND POWER OF
ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS**

Full name of fourth joint inventor, if any

Rachel

(GIVEN NAME)

Dalton

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of fifth joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of sixth joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Added Page to Combined Declaration and Power of Attorney for Signature by Fourth and
Subsequent Inventors [1-2])

ALGORITHM – REV. D**SELECTING YOUR CARRIER ROOM AIR CONDITIONER**

**NOTE: IF THIS UNIT IS INTENDED FOR A SUN ROOM OR COMMERCIAL APPLICATION,
PLEASE CONTACT YOUR LOCAL CARRIER DEALER**

A. Length of room in feet

Drop Down
8 through 45

B. Width of room in feet

Drop Down
8 through 60

CALCULATE:

$A \times B = \text{Sq. Ft.}$

If Sq. Ft. ≤ 1700 , then GOTO BTU Table # 1; Else “Your requirement cannot be satisfied on this website. Please contact your local Carrier dealer for further assistance with unit selection.”

LOOK-UP:

BTU Table # 1 and select BTU Size based on Sq. Ft.

BTU Size = BTU #1

C. How many square feet of glass facing outdoors are in the room?

Drop Down
(Range 10-100)

(note: length in ft. x width in ft. = sq. ft.
include windows, skylights, and glass doors)

CALCULATE:

$\text{BTU \# 2} = \text{BTU \# 1} + (\text{C} \times 60)$

NOTE: Round down for all fractions.

D. Is room normally in sun or shade?

Sun___

Shade___

CALCULATE:

If “Sun,” then $\text{BTU \# 3} = \text{BTU \# 2} \times 1.1$

If “Shade,” then $\text{BTU \# 3} = \text{BTU \# 2} \times .95$

note: If only one external wall is in the sun, enter “Shade.”

E. What type of space is above the room?

Roof Only___ Attic___ Occupied Room___

CALCULATE:

If roof only, then $\text{BTU \# 4} = \text{BTU \# 3}$

If attic, then $\text{BTU \# 4} = \text{BTU \# 3} \times .85$

If occupied room, then $\text{BTU \# 4} = \text{BTU \# 3} \times .8$

F. Is room above cooled space (i.e. basement, another air-conditioned room)? Yes___

No___

CALCULATE:

If Yes, then $\text{BTU \# 5} = \text{BTU \# 4} \times .8$

If No, then $\text{BTU \# 5} = \text{BTU \# 4} \times .9$

G. Will unit be operated during the night only?

Yes___ No___

CALCULATE: If Yes, then BTU # 6 = BTU # 5 x .65
If No, then BTU #6 = BTU #5

H. Enter zip code where unit will be installed _____
(note: zip codes are matched to factors to determine climate conditions in your area of the country)
Climate Factor _____

CALCULATE: BTU # 7 = BTU # 6 x climate factor

LOOK-UP: Table A and select map factor based on corresponding zip code. Map factor should appear in the space above where it says Climate Factor.

I. Number of people who normally occupy room _____ Drop Down
Range 2-8

CALCULATE: BTU # 8 = [(I - 2) x 600] + BTU # 7

J. Is the room a kitchen? Yes___ No___

CALCULATE: If "Yes," then BTU # 9 = BTU # 8 + 4,800
Else,
If "No," then BTU # 9 = BTU # 8 + 300

K. Will the unit be installed in a window or through-the-wall? Window___ Wall___

L. Do you require a unit, which cools and heats? Yes___ No___

NOTE: THIS IS SUPPLEMENTAL HEAT. UNIT SELECTION WILL BE BASED ON YOUR COOLING REQUIREMENTS ONLY!!!

COMPARE: If BTU # 9 is < 9001 and "L" = "Yes," then provide a test window as follows:

"At this time, Carrier does not offer a combination heat/cool unit that meets your requirements, though we are able to satisfy your cooling requirements. Would you like to eliminate your request for supplemental heat?"

Yes___ No___

If "Yes," GOTO the Picture/Spec File.

Else,

If "No," provide a text window as follows:

"We're sorry...based on the information you have provided, Carrier cannot accommodate your combination cooling/heating needs. For further assistance, please contact your local Carrier dealer to review your air conditioning/heating requirements. Thank you."

LOOK-UP: If "K" = "Window" and "L" = "Yes," then GOTO Table # 4
If "K" = "Window" and "L" = "No," then GOTO Table # 2
If "K" = "Wall" and "L" = "Yes," then GOTO Table # 4
If "K" = "Wall" and "L" = "No," then GOTO Table # 3

NOTE TO PROGRAMMERS:

IF "K" = "Window" and "L" = "Yes,"
And
IF models selected begin with XH or XQ,
THEN
The Picture/Spec screen has to include the following:

"Your installation requires the purchase of a window installation kit.
Part Number 73XH900001 Price \$39.00

OR,

IF "K" = "Window" and "L" = "Yes,"
And
IF models selected begin with YH,
THEN,
The Picture/Spec screen has to include the following:

"Your installation requires the purchase of a window installation kit.
Part Number 73YH900001 Price \$39.00

OR,

IF "K" = "Window" and "L" = "Yes,"
And
IF models selected begin with YH, and/or XH and/or XQ
THEN,
The Picture/Spec screen has to include the following:

"The YH model(s) requires the purchase of the following window installation kit:
Part Number 73YH900001 Price \$39.00

The XH and XQ models require the purchase of the following window installation kit:
Part Number 73XH900001 Price \$39.00

**SELECT APPROPRIATE UNITS BASED ON BTU # 9 AND TABLE 2, 3, OR 4
GOTO PICTURE/SPEC FILE.**

TABLE # 1:

Sq. Ft.	BTU
100	5000
150	5000
151	6000
300	6000
301	8000
350	8000
351	8600
450	8600
451	10000
500	10000
501	12000
700	12000
701	14000
800	14000
801	15000
900	15000
901	18000
1300	18000
1301	21000
1450	21000
1451	24000
1700	24000

Table A

ZIP Code	Map Factor
0	0.8
1000	0.8
1999	0.8
2000	0.8
2999	0.8
3000	0.8
3199	0.8
3200	0.7
3999	0.7
4000	0.7
4999	0.7
5000	0.8
5299	0.8
5300	0.7
5999	0.7
6000	0.8
6999	0.8
7000	0.9
8999	0.9
10000	0.9
11999	0.9
12000	0.7
12999	0.7
13000	0.8
14999	0.8
15000	0.8
15999	0.8
16000	0.9
17999	0.9
18000	0.8
18999	0.8
19000	0.9
19999	0.9
20000	1
20099	1
20100	0.9
20999	0.9
21000	0.75
21999	0.75
22000	1
24999	1
25000	0.9
26999	0.9
27000	1
28399	1
28400	0.9
28999	0.9
29000	1
29999	1
30000	1
31999	1
32000	0.975
32999	0.975
33000	0.95
34999	0.95

35000	1
36999	1
37000	1
37999	1
38000	1.1
38999	1.1
39000	1.05
39999	1.05
40000	0.95
42999	0.95
43000	0.9
45999	0.9
46000	0.9
46999	0.9
47000	1
47999	1
48000	0.9
48999	0.9
49000	0.75
49999	0.75
50000	1
51999	1
52000	0.9
52999	0.9
53000	0.9
53999	0.9
54000	0.75
54999	0.75
55000	0.9
56999	0.9
57000	1.05
57999	1.05
58000	0.95
58999	0.95
59000	1
59199	1
59200	0.9
59599	0.9
59600	0.8
59999	0.8
60000	0.9
61999	0.9
62000	1
62999	1
63000	1
65999	1
66000	1
66999	1
67000	1.2
67999	1.2
68000	1.1
69999	1.1
70000	1
70999	1
71000	1.1
71999	1.1
72000	1.2
72999	1.2
73000	1.2
74999	1.2

75000	1.2
79999	1.2
80000	1
81999	1
82000	0.9
82999	0.9
83000	1
83999	1
84000	1
84999	1
85000	1.4
85499	1.4
85500	0.9
86199	0.9
86200	1.25
86999	1.25
87000	1
87999	1
88000	1.1
88999	1.1
89000	1.25
89299	1.25
89300	0.85
89499	0.85
89500	1
89899	1
89900	0.85
89999	0.85
90000	0.8
90999	0.8
91000	1.1
91999	1.1
92000	0.8
92199	0.8
92200	1.4
92399	1.4
92400	1.25
93099	1.25
93100	0.8
93199	0.8
93200	1.25
93999	1.25
94000	0.8
94999	0.8
95000	1.15
95999	1.15
96000	1.1
96699	1.1
96700	1
96999	1
97000	0.85
97999	0.85
98000	0.7
98599	0.7
98600	0.85
98799	0.85
98800	1
99499	1
99500	0.7
99999	0.7

TABLE # 2: Cooling Only Units

If BTU # 9 is	Select
3000 to 5200	UCA051B
	TCB051B
	TCA051B
5201 to 7000	LCA061P
	UCB061B
	TCA061D
	PCA061D
7001 to 9000	UCD081B
	TCA081D
	TCA081P
	53SSB009-1
9001 to 11000	TCA101D
	GCA101B
	53SSB009-1
11001 to 13000	TCA121D
	GCA121B
	GCA123B
	XCB121E
	XCB121R
	462AJC012BA
	DCA131G
13001 to 14000	DCA141D
14001 to 16500	DCA153D
	462AJC015BA
16501 to 19000	XCB183D
	XCB183E
	462AJC018BA
19001 to 22000	DCA213D
	YCA213R
	462AJC021BA
	YCB213E
22001 to 25000	JCA243D

TABLE # 3: Through Wall Units

If BTU # 9 is	Select
3000 to 5200	UCA051B
5201 to 7000	UCB061B
7001 to 9000	UCD081B
9001 to 11000	GCA101B
11001 to 13000	GCA121B
	GCA123B
	XCB121E
	XCB121R
	462AJC012BA
	DCA131G
13001 to 14000	DCA141D
14001 to 16500	DCA153D
	462AJC015BA
16501 to 19000	XCB183D
	XCB183E
	462AJC018BA
19001 to 22000	DCA213D
	YCA213R
	462AJC021BA
	YCB213E
22001 to 25000	JCA243D

Table # 4: Heating Units

If BTU # 9 is	Select
3000 to 5200	N/A
5201 to 7000	N/A
7001 to 9000	N/A
9001 to 11000	XHC101D XQB101D
11001 to 13000	XHA123D XQA123D
13001 to 14000	XHA123D XQA123D
14001 to 16500	XHB153D XQB153D
16501 to 19000	XHB183D XQB183D
19001 to 22000	YHB243D
22001 to 25000	YHB243D